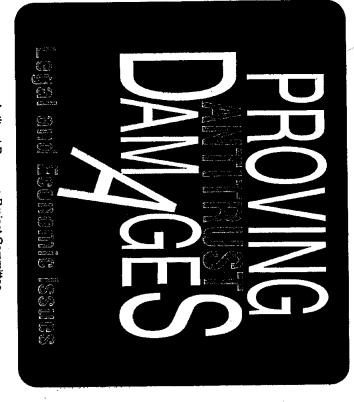
#### **EXHIBIT T**



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#### CHAPTER 6 OVERCHARGES

This chapter will survey common legal and economic issues that arise in the determination of damages for price enhancement caused by price-fixing, monopolization, and tying arrangements. This analysis will incorporate the analogous task of calculating damages from the sale of a product to the defendants at an anticompetitively low price.\(^1\)

## A. Horizontal Price Fixing

The measure of damages that is commonly used in price fixing cases is based on the overcharge itself. Simply put, the plaintiff's damages depend on the difference between the actual price paid and the competitive price, or the price that would have been charged absent the illegal agreement. Early on, the Supreme Court recognized the overcharge as the principal measure of harm in price fixing cases.<sup>2</sup> The overcharge measure has the virtues of conceptual simplicity, theoretical justification, even if imperfect, and relative ease of calculation. The major practical and conceptual difficulties involved in overcharge damage actions can be isolated by focusing on the characteristics of the most common case: the plaintiff is a direct purchaser; the plaintiff purchases from one or more of the colluding firms; and the plaintiff recovers the overcharge on the amount actually purchased. We consider the issues that arise in such cases, including those alleging bid-rigging in the next subsection.

In the remainder of the subsection, we consider issues beyond the most common case. In the second subsection, we discuss special problems in proof of damages in cases in which the alleged collusion relates only to one component of price and in cases involving regulated prices. In the

For linguistic convenience and because most cases do involve anticompetitive price increases rather than decreases, the exposition in this chapter will generally assume a price enhancement and use the term "overcharge" to refer to the anticompetitive price differential. The analysis applies equally, however, to monopsony pricing.

See Chattanooga Foundry & Pipe Works v. Atlanta, 203 U.S. 390, 396 (1906) (affirming an award of damages based on "the difference between the price paid and the market or fair price that the city would have had to pay under natural conditions had the combination been out of the way").

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Proving Antitrust Damages

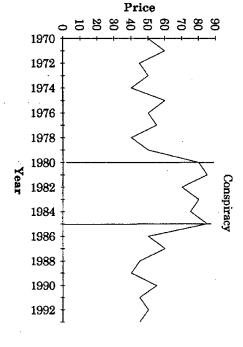
third subsection, we examine the possible use of lost profits as a measure of damages for price enhancement. Finally, we discuss some important harms associated with price fixing other than the overcharge to direct purchasers from cartel members: the harm to indirect purchasers from the cartel; the harm to firms who pay higher prices to nonparticipants in the cartel; and the deadweight welfare loss associated with the cartel.

# Overcharge to Purchasers from Cartel Members

The most straightforward damage calculation is for the harm sustained by plaintiffs who purchase the price-fixed good directly from participants in the price fixing conspiracy. The typical measure of damages is the difference between the actual price and the presumed competitive price multiplied by the quantity purchased. This was the calculation that the Supreme Court approved in *Chattanooga Foundry*. When all firms in an industry collude and all direct purchasers sue, the measure corresponds to the wealth transfer from consumers to producers occasioned by a price fixing agreement.

### Estimating the Overcharge

The plaintiff's problem in such cases is to estimate the extent of the overcharge, that is, the difference between the actual price charged and the price but for the conspiracy. The problem can be seen with the aid of Figure 1, which is a plot of hypothetical prices over the 1970-1993 period.



igure I

For illustrative purposes, we have assumed that the evidence shows that a price fixing cartel was implemented in 1980 and fell apart with the filling of a complaint in 1985. Thus, the data includes a 10-year preconspiracy period and an 8-year postconspiracy period. While the defendants cannot escape liability by arguing that the conspiracy was ineffective, they may reduce the amount of damages. During the damage phase of the case, the real fight will be over the "but for" prices during the 1980-1985 period. In this instance, the average preconspiracy price was \$50 while the average postconspiracy price was \$50 while the average postconspiracy price was \$79.17.

It would be easy to convince a jury that the prices during the conspiracy were significantly higher than during the preconspiracy and postconspiracy periods. But should one compare the actual collusive prices with an average nonconspiracy price of, say, \$50? The defendants may try to argue that the prices during the 1980-85 period of time would have been well above \$50 anyway. If that can be shown, the estimated overcharge (and hence damages) will be reduced. In this section, we shall

Overcharges

In the hypothetical described above, advanced econometric techniques can be used to test statistically whether the same process generated the observed prices. These techniques build on multiple regression as a tool,

examine the use of multiple regression techniques to estimate

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overcharges in price fixing cases.

to account for the influence of a conspiracy. equation has been used in two ways: with and without a dummy variable variables and their estimated coefficients. The reduced form price an estimate of the average price given specific values of the independent up the collective influence of a host of minor factors. The model provides represent the major influences on price. As a result, the error term picks in Chapter 5, the explanatory (or independent) variables are assumed to is expressed as a function of demand and supply variables. As discussed overcharges in price fixing cases have been used by plaintiffs and defendants.<sup>6</sup> Typically, a reduced form model is employed in which price In spite of various theoretical difficulties,5 regression analyses of

estimate of the average overcharge due to the price fixing activity.7 must employ data that cover the conspiracy period and the non-conspiracy and zero for observations outside the conspiracy period. Obviously, one variable takes on the value of one for observations during the conspiracy equation includes a dummy variable as an explanatory variable. This account for the influence of the conspiracy, the reduced form price Dummy Variable Model. When the analyst uses a dummy variable to The estimated coefficient of the dummy variable provides an

substitutes for chicken (beef, pork, and turkey), seasonal dummies, the Antitrust Litigation.8 In their model, plaintiffs' experts had the prices of This is the approach that the plaintiffs employed in In re Chicken

For an excellent discussion, see G.S. MADDALA, ECONOMETRICS 194-

variable could be used to isolate observations associated with the variables that are not themselves influenced by chicken prices, the dummy system been solved to yield the chicken price as a function only of simultaneous system of equations rather than a single equation. Had the conspiracy period. As a result, the price of chicken should have been estimated as part of a (which was the dependent variable) influences the prices of substitutes. simultaneous equation bias in the estimates because the price of chicken Some of the difficulty experienced in this application no doubt stemmed not mean that the use of the dummy variable approach was incorrect collusive prices were lower than the prices would have been otherwise. durniny variable. This, of course, meant that one should infer that the not prove useful as the data yielded a negative coefficient for the collusion of chicken, and a dummy for the conspiracy period. This approach did consumer price index, consumer disposable income, per capita production from other econometric problems. For example, there may have been The fact that the data did not cooperate in estimating an overcharge does

prices and the actual prices are presumed to be overcharges due to the conspiracy. the conspiracy period. The differences or residuals between the predicted variables during the conspiracy period to predict the average prices during uses the estimated coefficients and observed values of the independent relationship then provides an explanation for noncollusive prices. One form price equation for the non-conspiracy period. The estimated Residuals Model. Another way to proceed is to estimate the reduced

the predicted prices to obtain a percentage difference. The plaintiffs then nonconspiracy period. The differences or residuals were then compared to during the nonconspiracy period were used to predict the prices during the estimated coefficients and actual observations of the independent variables expert estimated the price equation for the conspiracy period. The Corrugated Container Antitrust Litigation. In that case, the plaintiffs' conspiracy period and reverse the procedure, as was done in In re Alternatively, one can estimate the equation using data from the

theoretically would reflect the effect of the cartel, from a single set of See Franklin M. Fisher, Multiple Regression in Legal Proceedings, determine the "but for" values of the regression coefficients, which 80 COLUM. L. REV. 702 (1980) (arguing that there is no way to

<sup>46</sup> LAW & CONTEMP. PROBS. 145 (1983). Levenbach, Regression Estimates of Damages in Price-Fixing Cases, Much of this examination is based on Michael O. Finkelstein & Hans

coefficient of the dummy variable is an estimate of the percentage overcharge. This assumes that the model is linear. If a logarithmic form is used, the

<sup>560</sup> F. Supp. 963, 993 (N.D. Ga. 1980)

it is unsound econometric practice. in order to find some damages. This approach should be discouraged as The experts then proceeded to exclude observations that they did not like

<sup>441</sup> F. Supp. 921 (S.D. Tex. 1977).

inferred that the same percentage difference between competitively determined prices and the actual prices during the conspiracy existed This was their measure of damages.11

collusive prices. If these outbreaks of competition can be identified agreement, some competitive observations will be intermingled with the all times. To the extent that there are episodes of cheating on the collusive it is not too important to have precise dates, but for damage estimation it will not be easy to identify the breaking points. For purposes of liability, benchmarks. If they cannot, then the sporadic competition may confuse clearly, they can be used to provide further information on the competitive is. Moreover, it is unlikely that the conspiracy will function smoothly at identification of the conspiracy and nonconspiracy periods. Usually, it remark on just a few. First, these procedures depend Some Caveats. There are a host of problems in practice, but we shall on a clear

variables of interest. For example, one may want marginal cost and have somewhat imperfect measures of the true variables. As a result, some one must rely on proxies for the variables of interest. If the proxies are industry specific factors are quite different. In other words, in practice to settle for average variable cost. Similarly, one may use the Consumer bias will be introduced into the estimation. but this is largely unobservable. In any event, proxies are necessarily highly correlated with the true variables, estimation problems are reduced, Price Index or Producer Price Index to control for inflation generally when Second, it is rare when the analyst can obtain observations on the true

promotion will rise above the level that they would have assumed but for agree on price, but compete on advertising and promotion.<sup>12</sup> As firms been influenced by the conspiracy. For example, the conspirators may scramble for market share at the inflated collusive price, expenditures on Third, it is possible that the values of some independent variables have

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efforts at cost control.<sup>13</sup> To the extent that these costs are used in the collusion. Similarly, the absence of competition could lead to reduced bias in the damage estimate. predicting price, their inflation due to the conspiracy leads to a downward

determine how much of any observed price differential is due to collusion the standard error will be high. This, in turn, means that it will be hard to they were during the estimation period. As a result, when one predicts the and how much is due to random error. 14 The effect of this is to reduce the precision of the estimate in the sense that "but for" price, one is necessarily forecasting outside the sample range. Fourth, over time, demand and supply conditions change from what

### b. Bid-Rigging Cases

question often involves distinctive problems. 15 absence of collusion? Because of the nature of bidding markets and of the of all overcharge cases-what would the transaction price have been in the purchaser requires inquiry into the same question that is at the foundation defined as an agreement between competitors that one will not submit a heterogeneous products typically sold in them, however, answering that bid lower than the other. Calculating the damages suffered by the direct Bid-rigging, a classic price-enhancement antitrust violation, can be

umbrella. Further, given that collusion is likely to be more successful as competitive fringe raises price under the protection of the cartel's price collusion, they would be inclined to inflate their bids, much like a was not injured would be incorrect. If the non-conspirators suspected and a non-conspirator wins the contract. A deduction that the purchaser Suppose the cartel misestimates the level of prices bid by non-conspirators For example, direct evidence of damages is apt to be misleading

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To illustrate this last step more generally, suppose the difference or the nonconspiracy period, or 25% of the predicted price of \$120. The residual between actual and predicted prices was \$30 [\$150 - \$120] for the conspiracy period. inference would then be drawn that prices were inflated by 25% during

See, e.g., George J. Stigler, Price and Nonprice Competition, 72 J. POL Econ. 149 (1968)

skeptical view, see George J. Stigler, The Xistence of X-Efficiency, 66 AM. ECON. REV. 213 (1976). ECON. REV. 392 (1966), for the classic article on this issue. For a See Harvey Leibenstein, Allocative Efficiency v. 'X-inefficiency,' 56 AM.

See Fisher, supra note 5.

Highway Construction Contracts, 29 ANTITRUST BULL. 719 (1984) (1989); John M. Kuhlman & S. R. Johnson, Estimating Damages on in Construction Industry Bid-Rigging Cases, 34 ANTITRUST BULL. 359 See generally Jeffrey H. Howard & David Kaserman, Proof of Damages

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the cartel includes more of the firms that would otherwise be the most effective competitors, non-conspirators are likely to be relatively high-cost suppliers. In a competitive market, a lower-cost supplier, which is to say one of the cartel members, would have won the contract. Moreover, even the costs of the cartelists may be inflated if the long-term absence of

competitive pressure has induced the firms to be lax in containing costs. 16 and any pre-bid cost estimate made by the contracting authority. Such on the rigged job would provide a measure of damages. This approach in design. After adjustments are made for minor cost differences, the engineering cost analysis of rigged and unrigged jobs that are comparable period.17 cost. In addition, by basing an estimate on historic data, the estimator winning other jobs. The marginal cost may be above or below average capacity utilization, expected number of bidders, and likelihood of estimates are based on historic average costs, whereas a bidder calculates better measure than the simple difference between the collusive bid price the analysis when comparable jobs are found. Even so, this provides a hard to find sufficient comparable unrigged jobs and expensive to perform becomes difficult as the number of rigged jobs increases, for it becomes difference between the bid price on the competitive job and the bid price may be incorporating collusive price increases that pervaded the earlier into account various fluctuating demand and supply factors, such as its bid on the basis of its marginal cost at the relevant time, which takes An alternative method of calculating damages is to conduct an

Damages might instead be calculated using one or more statistical methods. For instance, when pre-bid cost estimates are developed by contracting authorities in a consistent way, one can calculate the average ratio of the winning bid to the cost estimate either for rigged and unrigged jobs separately or for all jobs. When unrigged jobs can be identified with confidence, it is not necessary for the jobs to be comparable, for ratios are being compared, not the jobs themselves. The damage estimate would be the ratio of winning bid to cost estimate for the rigged job minus the average ratio for unrigged jobs, multiplied by the cost estimate for the cost estimate for the rigged jobs, multiplied by the ratio for unrigged jobs,

subtracted from the rigged bid. Though simple, this measure has certain drawbacks. The approach implicitly assumes that the bid-to-estimate ratio will be the same for all competitive contracts, when that is unlikely to be true. It assumes that the impact of collusion is fully reflected in the bid to estimate ratios, when in fact the ratios may differ from one collusive bid to another. And it does not take into account the number of bidders and other factors besides cost estimate and bid rigging that might influence bidding behavior. <sup>18</sup>

Two other statistical methods require the use of econometric models. One involves the use of a dummy variable. The explanatory variables include the cost estimate, the number of bidders, and the dummy variable, which is one if the job is rigged and zero otherwise, along with a disturbance term. The dependent variable is the winning bid. The model is estimated over the entire sample of rigged and unrigged bids. To estimate damages for any particular contract using this model, the dummy variable is set at zero, while the other variables remain the same, and a predicted competitive bid is generated. This model allows more factors to be taken into account than does the bid-to-estimate ratio approach, but it assumes that the structural parameters are the same across rigged and unrigged contracts, and this assumption may or may not be true. 19

The second econometric method is the forecasting approach. It is similar to the dummy variable approach, except that the dummy variable indicating whether the individual contracts were collusively determined is omitted, and the model is estimated over the subsample of unrigged jobs only. Thus, the regression explains winning bids on the basis of cost estimates, number of bidders, and possibly other relevant variables. By then substituting observed values of the independent variables on rigged jobs into the estimated equation, predicted winning bids are generated in the absence of collusion. These would be the presumed competitive prices and would be subtracted from the actual bids to determine damages. This approach allows more factors to be taken into account than either of the other statistical methods, but tends to be data intensive. Which of the two

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See Howard & Kaserman, supra note 15, at 364, 370

Id. at 371-72.

See Kuhlman & Johnson, supra note 15, at 728-31; Howard & Kaserman, supra note 15, at 375-77.

See Howard & Kaserman, supra note 15, at 377-79.

econometric methods will be better will depend upon the circumstances of

#### Special Overcharge Cases Limited Collusion

cartel will exceed the competitive price in any event, and overcharge dimensions. In cases that make economic sense, the price charged by the assumption holds. A cartel, however, may agree to restrict other product competition, except that the price is higher and consequently the volume sold by the cartel is the same product that would have been sold in understood to mean the bundle of product and service attributes involved, damages can be calculated. The standard overcharge measure implicitly assumes that the product When the cartel literally fixes price or limits output, the

agreed to refuse to extend trade credit to retailers. Prior to the agreement, agreement might have resulted in lower net prices. In that event, no reduced transaction costs, as by lowering retailer search costs, the would not have been affected by the agreement; indeed, if the agreement price, so that lower list prices were quoted in lieu of credit, then net price restriction. If, on the other hand, wholesalers continued to compete on list agreement was in effect should have been higher than net price absent the price and the agreement is truly anticompetitive, then net price while the wholesalers had extended credit without interest up to the 30 and 42 day overcharge could rationally be calculated. illegal price fixing. If credit is viewed as a discount off the wholesale list individual retailers. The Court found that the agreement constituted per se limits permitted by state law, in actual amounts that varied among For instance, in Catalano, Inc. v. Target Sales,21 beer wholesalers

a cartel would bother restricting credit terms. A cartel might be able to agreement to eliminate credit may serve to stabilize the collusive Credit terms may be inherently more difficult to verify, and so an readily ascertainable, thereby allowing the collusive price to be policed. engage in tacit collusion with respect to list prices, and list prices may be In the absence of evidence that list price was fixed, one might ask why

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overcharge, an overcharge that can be calculated by use of conventional anticompetitive harm. dimension of competition other than price or output to result in an It is therefore theoretically possible for an agreement to restrict some arrangement by limiting competition to one easily verifiable dimension.22 It is also possible for such agreements to result in no

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could not be sensibly calculated monetary equivalent of the harm caused by such a violation, however, market) would be denied the opportunity to buy them. If price is not limiting the choices available, constitutes an antitrust violation. higher, however, a court might nevertheless hold that the agreement, by consumers who prefer cans (and would be offered them in a competitive it would understate the true measure of lost consumer surplus, because the agreement is in effect. The overcharge can be calculated even though collusion, one would expect the price of beer in bottles to be higher while agreed to supply beer only in bottles. If the agreement facilitated product attributes available in the market. For example, suppose brewers One could also imagine a horizontal agreement to restrict the variety of

### Regulated Prices

rates may not be discriminatory. Despite the theoretical possibility of of any statutory constraints imposed on the agency, such as that approved except that the analyst must assess whether the hypothetical competitive calculated the same way they are calculated in unregulated settings, or implicitly immunized, it can constitute an antitrust violation. question involves an analysis of the agency's power to regulate rates and prices would have been permitted by the regulatory authority. Overcharge damages stemming from regulated prices, in theory, can be Collusion may occur in regulated industries. When it is not explicitly

Id. at 379-81.

<sup>446</sup> U.S. 643, 648-50 (1980)

producers to charge a price for freight calculated from the same basing could be competitively determined despite an agreement among producers. Id. at 111-26. They point out that delivered prices to buyers challenging a basing point freight system employed by plywood PROBS. 69, 117 (1983). The authors analyze FTC and private actions For a similar explanation, see Daniel L. Rubinfeld & Peter O. Steiner, point if competition on mill prices is unbounded. Quantitative Methods in Antitrust Litigation, 46 LAW & CONTEMP.

standing Congressional approval of it. Niagara Frontier Tariff Bureau,24 largely based on implicit and long-Keogh doctrine, the Court affirmed the doctrine in Square D Co. v. Commission. Though acknowledging the validity of criticism of the cannot recover damages for railroad rates inflated by a price fixing Northwestern Railway Co.,23 the Supreme Court held that a shipper damages can be recovered is uncertain. agreement when the rates are approved by the Interstate Commerce calculating overcharge damages in regulated industries, whether treble In Keogh v. Chicago &

area are beyond the scope of this study.28 amendment to the Interstate Commerce Act that substantially abridged the Federal Maritime Commission in an opinion that undercut much of the overcharges based on ocean shipping rates subject to regulation by the rail rates that allegedly would have been charged.<sup>27</sup> The intricacies of this market; it did, however, prevent shippers from recovering based on lower actually charged and lower trucking rates that would have been available prevent a shipper from recovering for the difference between rail rates preclude an action challenging rail freight rates despite a statutory rationale articulated in Keogh. But the Seventh Circuit applied Keogh to Westbound Conference,25 the Court allowed a treble damage action for difficult to determine. called, in contexts other than motor and rail carriage, which is subject to had the defendant railroads not unlawfully excluded truckers from the ICC's regulatory power.26 The Third Circuit held that Keogh did not ICC jurisdiction, and in the current era of partial ICC regulation is Proper application of the "filed rate doctrine," as it is sometimes For example, in Carnation Co. v. Pacific

# 3. Lost Profits as an Alternative Measure

higher by the exact amount of the illegal overcharge, thereby carning inflate the price of the input, the overcharge will cause the plaintiff no a perfectly inelastic demand curve in its output market and the defendants profits sustained by intermediate purchasers is the producer surplus lost anticompetitive increase in the price of the input. The sum of the lost profits it loses because of the increased costs it incurs as a result of the the most theoretically accurate measure of the injury it sustains is the words, the plaintiff is injured in its business as opposed to in its property, identical profits. plaintiff is not a consumer of the price-fixed product, when, in other because of the overcharge. In principle, if an intermediate purchaser faces lost by the plaintiff as a result of the defendants' overcharge. When the narm at all. One possible measure of damages for price enhancement is the profits The plaintiff will sell the same volume at a price that is

as a result of the price fix. Under the Illinois Brick rule, discussed below. For example, if a cartel sells to an intermediate cumbersome than the overcharge measure in a price fixing case, it has purchaser who resells to another, both purchasers are likely to lose profits the problem of excessive recovery posed by the indirect purchaser suit, considerable theoretical appeal.29 Such a measure would also eliminate Although the lost profits measure of damages is likely to be more

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Overcharges

<sup>260</sup> U.S. 156, 162-63 (1922)

<sup>383</sup> U.S. 213, 216-17 (1966). 476 U.S. 409, 419 (1986).

<sup>27</sup> 2 2 2 2 R.R., 476 U.S. 1158 (1986). (7th Cir. 1985), cert. denied sub nom. Little Crow Milling Co. v. B & O In re Wheat Rail Freight Rate Antitrust Litig., 759 F.2d 1305, 1310-12

market and did not prevent recovery by competing dock and trucking recovery for lower dock handling rates that would have been available 114 S. Ct. 921 (1994). The court also held that Keogh did not bar Cir. 1993), cert. dismissed, 114 S.Ct. 625 (1993), and cert. denied, In re Lower Lake Eric Iron Ore Antitrust Litigation, 998 F.2d 1144 (3c had the railroads not excluded more efficient dock operators from the

denied, 498 U.S. 880 (1988). companies excluded from the markets by the defendants. *Id.* at 1159. *Compare* Pinney Dock & Transport Co. v. Penn Central Corp., 838 F.2d rail haul and dock handling barred by Keogh, but not other claims), cert 1445, 1457 (6th Cir.) (claims based on the defendant railroads' rates for

attack on Keogh, see Stevan E. Bunnell, Note, The Use of Hypothetical Doctrine, 38 STAN. L. REV. 1141 (1986). HOVENKAMP, ANTITRUST LAW 227.2a, .2b (Supp. 1991). For a scholarly Rates in Antitrust Damages Calculations: Reforming the Keogh For a useful summary of cases, see PHILLIP AREEDA & HERBERT

Frank H. Easterbrook, Treble What?, 55 ANTITRUST L.J. 95 (1986) in Price Enhancement Cases, 64 MINN. L. REV. 751 (1980). But see See generally, Jeffrey L. Harrison, The Lost Profits Measure of Damages exclusion) (arguing that the overcharge, not lost profits, "should be the basis of all antitrust damages," including damages from anticompetitive

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profits lost by the other. duplicative, for the profits lost by one are conceptually distinct from the recover damages, in part in order to avoid the possibility that several intermediate purchaser, or the indirect purchaser from the cartel, cannot plaintiffs will recover the same damages. Under a lost profits measure, however, both purchasers could recover, and the recoveries would not be

of damages is required or precluded. In Thomsen v. Cayser30, the solely on the overcharge measure, but the Court's analysis suggested that customers. Ultimately, the Court affirmed a jury verdict that was based speculation. Instead, the profits lost resulted from the loss of identified measures. The Court noted that the plaintiff was properly made to bear pay and in the form of lost profits. The Court appeared to sanction both shippers sought damages in the form of the overcharge they were forced to defendant steam ship common carriers fixed prices, and the plaintiff it would have upheld an award for lost profits as well.31 the burden of proof and that the lost profits asserted were not left to The Supreme Court has not explicitly held that any particular measure

# 4. Other Harms from the Overcharge

## Suit by Indirect Purchasers

Document 272-4

substantially unchanged or as part of another good, and the demand for ever horizontal in practice, indirect purchasers virtually always can form of a higher price for the good. 32 Since demand curves are rarely if will be passed on by the direct purchaser to the indirect purchaser in the the product resold is not perfectly elastic, at least some of the overcharge Supreme Court held that indirect purchasers generally may not recover successful price fixing conspiracy. Nevertheless, in Illinois Brick33, the legitimately claim to have suffered overcharge harm as a result of a When the direct purchaser resells a price-fixed product, either

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impermissible. context, and so the reasoning of Hanover Shoe similarly argued for and overlapping liability. offensive use of the doctrine, the defendant would be exposed to multiple sustained. The Court based its decision on a number of concerns: First, under Section 4 of the Clayton Act34 for any part of the overcharge harm to hold in Illinois Brick that offensive use, like defensive use, rejecting the claim. The Court therefore was obliged either to overrule disallowing the pass-on defense was equally at stake in the offensive-use anticompetitive conduct. The litigation complexity that was avoided by the private treble damage action as an effective deterrent to antitrust litigation, thereby conserving judicial resources and promoting Hanover Shoe rule was a desire to simplify and to control the costs of application of the theory was necessary. It also found that the basis of the impermissible but indirect purchasers were allowed to recover through reduced accordingly. If such defensive use of the pass-on theory was the overcharge was passed on and that the plaintiff's damages should be defendant may not assert against a direct purchaser plaintiff that part of the Court had previously held in Hanover Shoe35 that an antitrust Hanover Shoe and allow both defensive and offensive use of the theory or The Court believed that symmetrical Z.

would therefore promote the deterrence objective of antitrust enforcement. would encourage private suits by increasing the potential payoff and recover the entire overcharge regardless of the proportion passed on, concentrating recovery in the direct purchasers, by allowing them to various levels would have to be calculated. It also believed that participate in the litigation, and amounts of the overcharge passed on to more complex, as all parties in a distribution chain would have to concerned that otherwise antitrust litigation would become dramatically The Court opted to reject use of the doctrine in both contexts. It was

complexity that the Hanover Shoe rule was meant to avoid. In Hanover pass-on likely to be involved would entail the very problems of litigation Court noted that classifying market situations according to the amount of purchaser is likely to pass on substantially all of the overcharge. The pass-on rule should be carved out for particular markets where the direct The Illinois Brick Court rejected the argument that exceptions to the

<sup>243</sup> U.S. 66 (1917).

<sup>&</sup>lt;u>31</u> 30

See William M. Landes & Richard A. Posner, Should Indirect Economic Analysis of the Rule of Illinois Brick, 46 U. CHI. L. REV. 602 Purchasers Have Standing to Sue Under the Antitrust Laws? An

Illinois Brick Co. v. Illinois, 431 U.S. 720, 737-38 (1977)

<sup>15</sup> U.S.C. § 15.

Hanover Shoe v. United Shoe Mach. Corp., 392 U.S. 481, 488 (1968)

and defensive use of passing-on arguments: Court reiterated this potential exception to the rule precluding offensive permitted in this case would not be present."36 And in Illinois Brick, the where the considerations requiring that the passing-on defense not be contract, thus making it easy to prove that he has not been damagedinstance, when an overcharged buyer has a pre-existing 'cost-plus' Shoe, however, the Court did "recognize that there might be situations-for

general case.37 supply and demand that complicates the determination in the In such a situation, the purchaser is insulated from any decrease determined in advance, without reference to the interaction of regardless of price. The effect of the overcharge is essentially because its customer is committed to buying a fixed quantity in its sales as a result of attempting to pass on the overcharge,

direct purchaser is owned or controlled by its customer."38 been superseded and the pass-on defense might be permitted is where the The Court also noted, "[a]nother situation in which market forces have

claimed that they should be allowed to recover the entire overcharge governmental entities who themselves purchased gas-also sued. The capacity as parens patriae, and the states as representatives of purchasers-consumers, who were represented by two states in their and the decrease in sales caused by the overcharge. The indirect mandates of state rate regulation. The indirect purchasers, meanwhile, because they had passed on the entire overcharge pursuant to the defendants asserted that the direct purchasers had not been harmed other direct purchasers sought damages for both the amount overcharged producers and a pipeline company allegedly fixed prices. The gas was would be very narrow indeed. In that case, a group of natural gas because, given regulatory strictures, they had absorbed all of it, and they resold to a regulated utility, which resold to consumers. The utility and recognize any exception to the rule, demonstrated that any such exception Hanover Shoe and Illinois Brick and, without conceding that it would In Kansas v. Utilicorp United, 39 the Court reaffirmed the principle of

argued that the direct purchasers should be allowed to recover only for

overcharge. The Court acknowledged "the possibility of an exception for cost-plus contracts," but found that any such exception would increases the price to indirect purchasers by the exact amount of the narrower than the one sought in that case for utilities generally.41 inelastic and, because of government regulation, the direct purchaser In short, the Court declined to establish an exception to the pass-on rules had not been injured, and it refused to allow the indirect purchasers' suit. 40 for cases involving utilities, even when the demand for a product is The Court rejected the defendants' argument that the direct purchasers

interpretation of statutes that are ambiguous on the issue. can be authorized either by explicit statutory provision or by judicial purchasers to recover under state antitrust laws. 4 Indirect purchaser suits the rule. 43 Though none of these so-called Illinois Brick repealers has doctrine which precludes indirect purchaser suits has been substantial been enacted, various states have adopted rules that permit indirect Numerous bills have been introduced in Congress to overturn all or part of lively scholarly debate. 42 Moreover, political opposition to that part of the The pass-on rules of Hanover Shoe and Illinois Brick have evoked a

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Hanover Shoe, 392 U.S. at 494 (emphasis added)

<sup>38</sup> 36 37 Illinois Brick, 431 U.S. at 736.

Illinois Brick, 431 U.S. at 736 n.16 (emphasis added)

<sup>497</sup> U.S. 199, 208 (1990).

The Court was not asked to consider the propriety of the direct purchasers' claim for damages based on lost sales.

Utilicorp United, 497 U.S. at 418.

Fixing, Privity, and the Pass-On Problem in Antitrust Treble-Damoge HARV. L. REV. 1717 (1990); Harrison, supra note 29, at 777. Change the Illinois Brick Rule, 55 ANTITRUST L.J. 213 (1986); Herbert Price Fixing Antitrust Actions: A Benefit/Cost Analysis of Proposals to George J. Benston, Indirect Purchasers' Standing to Claim Damages in Suits: A Suggested Solution, 19 WM. & MARY L. REV. 171 (1977); REV. 1274 (1980); Landes & Posner, supra note 32; John Cirace, Price-Economics of Passing on: A Reply to Harris and Sullivan, 128 U. PA. L. Monopoly Overcharge: A Comprehensive Policy Analysis, 128 U. PA See, e.g., Robert G. Harris & Lawrence A. Sullivan, Passing on Hovenkamp, L. REV. 269 (1979); William M. Landes & Richard A. Posner, The The Indirect-Purchaser Rule and Cost-Plus Sales, 103

See Benston, supra note 42, at 214.

<sup>4 4</sup> For examples, see California v. ARC America Corp., 490 U.S. 93, 98

be determined.46 purchaser and the proportion passed on to indirect purchasers may have to independently, the proportion of an overcharge incurred by a direct under state laws, whether in conjunction with federal claims or an indirect purchaser cannot recover. When antitrust claims are asserted direct purchaser plaintiff need only prove the aggregate overcharge, and state rules that allow recovery by indirect purchasers. As a result, in a between direct and indirect purchasers has virtually been eliminated - a federal antitrust action, the need to apportion overcharge damages federal antitrust law, as interpreted in Illinois Brick, does not preempt In California v. ARC America Corp. 45 the Supreme Court held that

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pay the entire overcharge in damages to the direct purchaser in a federal this case."47 And theoretically an antitrust defendant could be required to clear purpose of Congress indicates that we should decide otherwise in impose liability over and above that authorized by federal law, and no condoning multiple liability. In ARC America the Court said: Supreme Court found compelling in Illinois Brick and allow the direct and action and the same amount to the indirect purchaser in a state action. 48 "Ordinarily, state causes of action are not pre-empted solely because they indirect purchasers each to recover the whole overcharge, thereby As a constitutional matter, a state apparently may reject the symmetry the necessarily mean that overcharges will have to be apportioned, however The fact that a state permits indirect purchaser suits does no

### b. Umbrella Effects

group can exercise market power through express or tacit collusion even of a market and entry into the market and expansion are impeded, the though the group does not include all of the suppliers in the market. A In general, if a group of firms collectively has a sufficiently large share

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such a competitive firm in a cartelized market will therefore pay more for will also raise prices. This phenomenon has been called the "umbrella collusion, a rational non-participant, who was and remains a price taker, suppliers, and a profit-maximizing, supra-competitive price for the group the product than it would have paid absent collusion. This overcharge the price umbrella unfurled by the cartel. A buyer that purchases from effect," in that the competitive firm raises its prices under the protection of as much as it could absent the competitive fringe. In response to such can be ascertained.49 The group can raise price collusively, though not by the market demand curve minus the supply curve of the non-participating residual demand curve can be calculated for the group, which represent supra-competitive prices, and may the buyer recover overcharge damages poses two principal questions: for purchases made from non-participants?50 distinguished from participants when all firms in the market are charging Can non-participants practically be

such evidence there is a theoretically simple empirical test to distinguish point where their marginal costs equal the new price. The shape of their enhancement, the market shares of non-participants should increase.51 communication among a distinct subset of firms in a market. Even absent upward-sloping marginal cost curves, they will increase output to the increase price by reducing output. participants from non-participants: not conspiring, as when documentary evidence reveals a pattern of price The rationale of this test is straightforward: Participating firms will Sometimes, direct evidence may indicate which firms were and were Assuming non-participants have During the period of price

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<sup>490</sup> U.S. 93, 101-02 (1989).

For a discussion of the problem, see John Cirace, Apportioning Damages ARC America Unravels the Illinois Brick Rule, 35 VILL. L. REV. 283 Between Direct and Indirect Purchasers in Consolidated Antitrust Suits:

ARC America, 490 U.S. at 105 (citations omitted).

See Phillip Areeda & Herbert Hovenkamp, Antitrust Law ¶337.4

See Dennis W. Carlton & Jeffrey M. Perloff, Modern Industrial ORGANIZATION 231-36 (1990).

issue of liability, but it is closely related to the issue of damages. Technically, distinguishing participants from non-participants is an

output of non-participants will increase whereas the output of increasing, when the outputs of both may increase, though at different terms of market share is that it is determinative even if demand is in the absence of collusion. The advantage of expressing the test in participants will contract, relative to the respective outputs of the firms Damages, 28 AM. Bus. L.J. 33 (1990). An equivalent test is that the from Nonparticipants in a Price-Fixing Conspiracy: Liability and See Roger D. Blair & Richard E. Romano, Distinguishing Participants rates. See id., at 51.

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collusive period. 52 distinguish between the two but help to identify the beginning of the market share from the former to the latter, and that will not only serve to supply actions of participants and non-participants will be a shift in back to the competitive level. But the immediate effect of the differing competitive fringe that is only profitable in the long run may force price output if market price increases, but only to a point. Of course, over time, competitive fringe, implies that non-participants can profitably expand long-run supply responses in the form of new entry and expansion by the marginal cost curves, or collectively the short-run supply curve of the

recover damages. to whether those who purchase from them may and ought to be able to however, that non-participants can be identified, the question remains as market shares test harder to apply than one would predict. Assuming, unusable, and they may even make a test as simple and clegant as the problems may render some tests, like an analysis of profits, wholly data from nonparticipants who are not parties to the litigation. measurement and data availability, including the difficulties of obtaining however, firms directly.<sup>53</sup> No matter how sound an econometric test is in theory, than for participants, and one could attempt to measure the profits of all For example, the increase in profits should be greater for non-participants Other methods of identifying non-participants are no doubt possible its usefulness is constrained by practical problems of

rudiments of antitrust injury and antitrust standing, regardless of whether colluded satisfies the basic requirement of actual causation, as well as the the seller participated in the conspiracy.54 Courts have split on whether to A price increment that is paid for a product because suppliers have

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Romano, *supra* note 51, at 41 & n.16.

allow purchasers from non-participants to recover from participants.35 grounds. Some have reasoned that damages for amounts paid to third Courts that have refused to allow recovery have done so on various involve the litigation complexity the Illinois Brick Court sought to avoid.56 parties are inherently speculative and that determining the existence and have received no direct benefit from the plaintiff's purchases.57 Others have expressed reluctance to impose liability on defendants who level of overcharge paid as a result of the defendants' conspiracy would

ង A version of this test reportedly was accepted by the court in E.W. (Tx) (C.D. Cal. Oct. 2, 1985). The decision is discussed in Blair & French & Sons v. General Portland, Inc., Civ. Action No. 78-1928-TJH

See Blair & Romano, supra note 51, at 41 & n.16.
See William H. Page, The Scope of Liability for Antitrust Violations, 37 STAN. L. REV. 1445, 1465-67 (1985); Roger Blair & Virginia Analysis, 1982 UTAH L. REV. 763 (1982) Umbrella Pricing and Antitrust Standing: An Economic

alleged conspiracy are jointly and severally liable with no right to contribution."); In re Uranium Antitrust Litig., 552 F. Supp. 518, 522 members for purchases from co-conspirators who are not named as cartel is conceptually distinct from the issue of recovery from cartel allowing recovery for purchases from non-defendant co-conspirators. See Areeda & Hovenkamp, supra note 48, at ¶337.3. The possibility of Ariz. 1985) ("It is undisputed that any participants involved in the See, e.g., In re Arizona Dairy Prods. Litig., 627 F. Supp. 233, 236 (D. Materials, 451 U.S. 630 (1981)), lower courts have had no trouble defendants have no right of contribution (Texas Indus. v. Radcliff recovery from members of a cartel for purchases from competitors of the jointly and severally liable for the acts of its co-conspirators"). (N.D. III. 1982) ("it has long been the law that an antitrust defendant is Given that the Supreme Court has held that antitrust

not been a conspiracy would at the very least be highly conjectural."); In re Folding Carton Antitrust Litig., 88 F.R.D. 211, 220 (N.D. III. 1980) what price the defendants' competitors would have charged had there whom they did not purchase . . . . ") case, . . . plaintiffs do not have standing to sue the defendants from burdensome proof in Illinois Brick and the similar complications in this 573, 583-87 (3d Cir. 1979) ("The outcome of any attempt to ascertain See, e.g., Mid-West Paper Prods. Co. v. Continental Group, 596 F.2d ("In light of the Supreme Court's overriding concern with the

Reading Indus. v. Kennecott Copper Corp., 477 F. Supp. 1150, 1154 overcharge damages based on purchases from those competitors. induced the defendants' competitors to increase price, and it sought See, e.g., Folding Carton Antitrust Litig., 88 F.R.D. at 220. In one case, (S.D.N.Y. 1979), aff'd, 631 F.2d 10 (2d Cir. 1980), cert. denied the plaintiff claimed that the defendants' conspiracy to suppress price 452 U.S. 916 (1981). Though in denying standing the court called the

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now to be on the side of recognizing the claim for damages. Of course, an from recovering by simple application of the Illinois Brick rule.59 indirect purchaser from a non-member of a cartel would be precluded courts have permitted recovery 58 Indeed, the weight of authority seems fruits of their illegal activity will ordinarily be sufficient to deter it. Other the sense that, assuming liability is certain, depriving the defendants of the concern is related to a deterrence objective of antitrust damages only in

lack of any plausible economic basis for the claim. plaintiff's arguments "respectable," it may have been influenced by the

sales which were affected by the elimination of competition. The identity 840 (N.D. Cal. 1973) ("it is clear that the defendants are not only liable omitted); Wall Prods. Co. v. National Gypsum Co., 357 F. Supp. 832, or from other traders with a long position, the price throughout the plaintiffs ultimately purchased offsetting contracts from the defendants 512 F. Supp. 711, 718-19 (S.D.N.Y. 1981) ("Regardless of whether the fishermen to conspirators and non-conspirators were all direct, the computation of damages is no more complex for one than for the other."); Strax v. Commodity Exch., 524 F. Supp. 936, 938-41 competitive prices, the inference that the cost increase was caused by the of the pipe seller, whether conspirator or not, is irrelevant."). (W.D. Wash. 1968) ("[Defendant] is liable for damages sustained on all Washington v. American Pipe & Constr. Co., 280 F. Supp. 802, 807 overcharges resulting from purchases made from non-conspirators"); market allegedly rose as a result of the defendants' activities.") (footnote (S.D.N.Y. 1981); Pollock v. Citrus Assocs. of the N.Y. Cotton Exch., cartel is inescapable."); In re Bristol Bay Salmon Fishery Antitrust it is established that nonconspirators have charged more than (allowing "claims against non-conspirator non-defendants"); (5th Cir. 1979) ("It is enough if, as alleged, the conspirators' activities for overcharges sustained from purchases from them, but also for Litig., 530 F. Supp. 36, 39 (W.D. Wash. 1981) ("Since the sales by the Uranium Antitrust Litig., 552 F. Supp. 518, 525 (N.D. III. 1982) ("Once Dairy Prods. Antitrust Litig., 627 F. Supp. 233, 236 (D. Ariz. 1985) wholesale beef price."), cert. denied, 449 U.S. 905 (1980); In re Arizona purchasing from a plaintiff based his pricing decision on the depressed caused a general depression in wholesale prices and the intermediary See, e.g., In re Beef Indus. Antitrust Litig., 600 F.2d 1148, 1166 n.24 In re

Litig., 691 F.2d 1335, 1340-41 (9th Cir. 1982), cert. denied sub nom See In re Coordinated Pretrial Proceedings in Petroleum Prods. Antitrust California v. Standard Oil Co., 464 U.S. 1068 (1984). Although the

argument has somewhat more substance when the firms sell substitute made from non-participants is unduly complex has little weight when the in price of a related product is likely to require calculations that control shift to the substitute product, causing the price of that product to rise. products. As the price of the cartelized product increases, demand will participants and non-participants sell the same, homogenous product, the Though determining the increment in price caused by a collusive increase Although the argument that determining the overcharge on purchases

# c. Overcharge Incident to Exclusion

different in degree will depend upon the facts of each case.

the task is no different in kind. Whether the task would be prohibitively

for more variables than would be necessary in the case of a single product,

supplier from entering the market. The excluded firm would have a claim competitor out of the market or, equivalently, prevent a more efficient because they pay higher prices as a result of the exclusionary practice. The basic measure of their damages is the same as the measure used But purchasers from the conspirators would also have antitrust claims for antitrust damages based on lost profits, as discussed in Chapter 7. Suppose a group of suppliers conspires to drive a more efficient

... would be speculative to some degree." that simple context. The court noted, "[T]he result of any attempt to court expressly reserved the question of whether it would recognize the prices resulted from the defendants' purported price-fixing conspiracy ... would be speculative to some degree." Id. at 1341 (footnote ascertain with reasonable probability whether the non-conspirators' purchasers from non-conspiring competitors of the defendants," id. at umbrella theory in a situation involving a "single class of direct determinations in umbrella pricing cases that would be germane in even 1340, it expressed concern over the complexity of making the necessary

are substitutes, an equilibrium price differential should prevail before price increase in any subset of these products should result in a higher equilibrium price differentials that prevail prior to collusion. A collusive When a market consists of differentiated products, there will be collusion begins, and a new, higher one thereafter. Analogously, if two products are viewed as being in separate markets but Thus, all prices will rise. See Blair & Romano, supra note 51, at 40-41 price structure that exhibits a new set of equilibrium price differentials

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typical collusion cases – the difference between the price actually paid and the price that would have been paid absent collusion, multiplied by quantity. There are differences between the cases, however. First, the efficient rivals, purchasers would have shifted at least some of their competitors. Second, in the typical collusion case, but for the overcharge, nevertheless be higher than the marginal costs of the excluded exclusion case, the actual price might equal marginal cost, but business to the rivals. price; in the exclusion case, but for the defendants' exclusion of more the plaintiff would have purchased from the defendants at the competitive actual price in the pure collusion case exceeds marginal cost, while in the

activity. Moreover, proving how much the excluded firm influenced the advantage will set a price just below that of its rivals, not necessarily at its price is likely to be difficult. A firm entering a market with a cost did not enter the market would have done so but for the exclusionary difficulties. For example, it may be difficult to prove that a supplier who exclusion case, they do imply certain unique theoretical and practical Although these differences pose no theoretical bar to recovery in the

plaintiffs would not have been able to make all of their purchases account of the fact that, absent the defendants' unlawful conduct, the at which it could satisfy market demand, is predictably time consuming down to the marginal cost of the more efficient firms. would have dropped gradually as additional, low-cost capacity entered the immediately from low-cost, excluded suppliers. Rather, the but-for price A theoretically-sound damage calculation presumably would have to take But this process of expanding the capacity of low-cost supply, to the point conspirators themselves might switch to the more efficient technology. duplicated by others, competition would eventually force the market price Of course, so long as the cost advantage of the excluded firm could be Indeed, the

Circuit affirmed an award of damages based on the theory that the In In re Lower Lake Erie Iron Ore Antitrust Litigation, 61 the Third

transport caused by the exclusion of self-unloaders.64 excluded.63 And they were allowed to recover the overcharge on lake that would have been paid had more efficient dock operators not been difference between dock handling charges actually paid and the charges the conspiracy.<sup>62</sup> The steel companies were allowed to recover for the would have paid to the truckers, though the Keogh doctrine was held to the steel companies to recover damages based on the lower prices they steel companies to use less efficient rail transportation. The court allowed of trucks into the market for land transportation of ore, thereby forcing efficient dock operations. They also were found to have delayed the entry lake transport market, thereby preserving the need for the railroads' less have delayed the entry of more efficient self-unloading vessels into the Great Lakes and over land to steel plants. The defendants were found to introduction of a more efficient method of transporting iron ore across the railroads, which also owned and operated docks, conspired to prevent the vertically-related markets. Steel companies alleged that the defendant defendants conspired to exclude more efficient suppliers in three bar any claim that they would have paid lower rail transport rates absent

effect on price that elimination of the price fixing conspiracy would have Overcharge calculations in such cases should reflect both the immediate above their marginal costs and to exclude more efficient rivals. had and the gradual effect from entry of more efficient rivals. One can also imagine hybrid cases in which firms collude to fix price

### d. Deadweight Loss

difference may play a practical role in proving damages, as the discussion economic analysis, these categories of purchasers are indistinct, but the by those who would have purchased at lower prices. For purposes of those who purchase some amount or the failure to purchase any quantities therefore, will result in a reduction in the quantity of the good purchased. increases the amount purchased decreases. A collusive price increase, That reduction can take the form either of smaller quantities bought by It is the fundamental law of demand that as the price of a product

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<sup>&</sup>amp; Transport Corp. v. Penn Central Corp., 838 F.2d 1445 (6th Cir cert. denied, 114 S. Ct. 921 (1994). For a related case, see Pinney Dock 998 F.2d 1144 (3d Cir. 1993), cert. dismissed, 114 S.Ct. 625 (1993), and 1988), cert. denied, 498 U.S. 880 (1988).

See Lake Erie, 998 F.2d at 1169-70. The Keogh doctrine is discussed

<sup>63</sup> Id. at 1168-69

See Page, supra note 54, at 1465.

the price-fixed product.65 the substitutes will be less than the value they would have derived from it would have cost society to produce those units of the good. Of course, that consumers would have derived more value from having the good than price increase represents a loss of allocative efficiency because it implies below suggests. The volume not purchased because of an anticompetitive those consumers will substitute other products, but the value derived from

adjustment, and that adjustment would depend upon the shape of the

demand curve. 67 In the end, no tolerably-precise adjustment has proven

In Montreal Trading v. AMAX, Inc.,68 the court held that one who

the fruits of their illegality, and conspirators gain no fruits on non-sales,

that the treble damage remedy is designed in part to deprive violators of

three considerations dispositive. First, Illinois Brick expressed the view of a price fixing conspiracy cannot recover damages. The court found never purchases a product because the defendants limit production as part result in excessive damages, understood in an economically meaningful

An accurate theoretical measure would require a downward

sold at the competitive price and to whom, multiplying that amount by the

if it could be determined how much more of the product would have been deadweight losses are represented by triangles, not rectangles. Thus, even another way of saying that, because demand curves slope downward,

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difference between actual price and presumed competitive price would

does not buy at all may be significant. Direct evidence that the volume proving what purchases would have been but were not made. In this with umbrella pricing, it satisfies requirements of causation and antitrust component of the optimal penalty, and like the overcharges associated triangle in the standard depiction of monopoly pricing. It is in theory a than evidence that a non-purchaser would have purchased. purchased was decreased is likely to be more substantial and probative respect, the difference between a purchaser who buys less and one who problematic. First, there are obvious practical problems associated with injury. But calculation of private damages based on deadweight loss is The allocative inefficiency is illustrated by the deadweight social loss

however, overstates the deadweight loss. The reason is that if the cartel the quantity that could have been profitably supplied but was not sold, purchased, is an accurate measure of the wealth transfer from consumers absent the illegal agreement), when multiplied by the quantity actually and the competitive price (or the price that would have been charged had increased output, its price would have gradually fallen. to producers resulting from the violation. 66 That increment multiplied by the loss of allocative efficiency. The difference between the price charged Second, the overcharge is not readily usable in theory as a measure of

with the conspirators."70 Though the court's holding can be supported on permitted when "the nonpurchaser can show a regular course of dealing speculative.69 The court did comment, however, that damages might be the fact of a party's injury, as opposed to the amount, may be inherently potentially disastrous recoveries by those only tenuously hurt. And third, profits on the quantity sold. Second, a grant of standing might result in except to the extent that volume had to decline in order to earn monopoly

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volume not purchased. Given the general problems of proving damages allowed damages before trebling equal to one-half the overcharge on

assuming that demand and supply curves are typically if ever linear, the for purchases not made together with the lack of justification

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consumers would have gained in a competitive market. That increment

however, is not surplus that

The associated increment of wealth,

would have been producer surplus.

wealth transfer from consumers to producers is the difference between cost is less than it is at the competitive price. One could say that the quantity, marginal costs drop. At the supra-competitive price, marginal

actual price and the marginal cost of producing the restricted quantity

For simplicity, this analysis assumes constant marginal costs. If instead

the short-run supply curve is upward sloping, as the cartel restricts

sold equals twice the deadweight loss). One could imagine a rule that the demand and supply curves are linear, the overcharge on the quantity will equal twice the deadweight loss. actual price and competitive price multiplied by the quantity not sold When the demand and supply curves are linear, the difference between Detrebling Antitrust Damages, 28 J. L. & Econ. 445, 455 (1985) (when Cf. Frank H. Easterbrook,

<sup>661</sup> F.2d 864, 867-68 (10th Cir. 1981), cert. denied, 455 U.S. 1001 utility of such a rule is doubtful. (1982).

<sup>8 6</sup> Montreal Trading, 661 F.2d at 868

could result in excessive liability if overcharge damages are measured in recovery by those who prove a curtailment of their regular purchases the analysis above, even if not on the rationale the court offers, allowing the conventional way.

of liability being incurred. If the probability is in fact greater than 33 permit excessive recovery or to impose inadequate liability. This choice, recovery of these damages may not be excessive. The resolution of this the quantity not sold will result in inadequate deterrence, and permitting probability is equal to or less than 33 percent, then excluding damages for accurate measure of the optimal penalty. If, on the other hand, the percent, then three times the overcharge on the quantity sold may be an however, assumes that the damage multiple simply reflects the probability issue is indeterminate. damages for the quantity not sold,71 the choice appears to be either to Because there is no practical way to measure theoretically-accurate

### B. Vertical Price Fixing

pricing. In general, customer plaintiffs may suffer compensable injury serve either to enhance efficiency or to facilitate supra-competitive or excluded participants in the restraint are less likely to be able to prove that can be calculated with acceptable precision; plaintiffs who are present the restraint, bearing in mind that distribution restrictions in theory can potential measures of damages requires an analysis of the explanation for accede and is cut off as a result. In either category of cases, assessing chain who accedes involuntarily to the illegal restriction or refuses to the lowest level of the vertical conspiracy, or by a firm in the distribution purchaser from a party to the agreement, usually a customer of a firm at Vertical price fixing cases are likely to be brought either by a direct

the scheme serves to facilitate a dealers' cartel or a suppliers' cartel.72 Vertical price fixing can be associated with supra-competitive prices if

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customer of a dealer would suffer overcharge damages that are an ordinary horizontal cartel. Accordingly, damages would be calculated analytically identical to the damages suffered by a direct purchaser from When the resale price maintenance scheme facilitates cartel pricing, a in the same way.

widely accepted is the "free-rider," or "special services" theory.74 In this refuse to incur costs that result in no return, and so pre-sale services cease provide costly pre-sale services. Some dealers provide the services, theory, the supplier recognizes that sales will be maximized only if dealers per se illegal regardless of the reasons for or effects of them. The most agreement from siphoning sales by offering a lower price. they will lose business to dealers who do, and they are restrained by the have the ability to free ride on others, for if they do not provide services supplier can induce the optimal amount of services. Dealers no longer dealers to offer pre-sale services and make an accounting profit, the to be offered. By setting a minimum resale price at the level necessary for have not incurred the costs of service. Eventually full-service dealers free-riding dealers, who can afford to charge a lower price because they the services provided by full-service dealers, then buy the product from incurring the attendant costs, but others do not. Customers make use of for resale price maintenance,73 though vertical price fixing agreements are A number of efficiency-enhancing explanations have also been offered

service sold will also be different and better. Indeed, an efficiencywould have prevailed absent the agreement, the package of product and assert a sensible theory of damages. Although price will be higher than though the defendant will likely be liable, the customer will not be able to increases efficiency, such as by eliminating the free rider problem, even enhancing restriction will result in greater consumer surplus than would If a customer sues a dealer in a vertical price fixing arrangement that

deadweight loss typically would be easy). 15 U. DAYTON L. REV. 457, 462-63 (1990) (arguing that calculating But see Melanie W. Havens, Michael F. Koehn & Michael A. Williams, Consumer Welfare Loss: The Unawarded Damages in Antitrust Suits,

See, e.g., Business Electronics Corp. v. Sharp Elecs. Corp., 485 U.S. 717 (1988); RICHARD A. POSNER & FRANK H. EASTERBROOK, ANTITRUST

Pauline M. Ippolito, Resale Price Maintenance: Empirical Evidence CASES, ECONOMIC NOTES, AND OTHER MATERIALS 211-12 (2d ed. 1981); from Litigation, 34 J. L. & Econ. 263, 292 (1991).

For a summary, see Ippolito, supra note 72.

explication of damage principles, the conclusions are the same regardless of the source of the efficiency. Though the special services theory is used in this section in the

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have been enjoyed absent the restraint. The restraint, therefore, far from causing injury, bestowed a benefit upon the plaintiff.

will be able to prove antitrust injury.76 if pre-sale services were provided because of the restraint, no consumer injury, that would not prove there was an aggregate welfare loss. In short, Even if a consumer could prove to have suffered this kind of individual individual consumers would have preferred less service at a lower price. operate. A restriction might increase consumer surplus even though some provided. Moreover, that consumer preferences for services differ is a difficulty proving that she had not derived value from services admittedly restraint may reduce consumer welfare by inducing a level of service supplier is interested in maximizing profits, the supplier is concerned with necessary but not sufficient condition for this theory of welfare loss to identify harmful resale price maintenance. A consumer would have demonstrated that this theory of welfare loss can be used in practice to induced by a vertical restraint could claim injury. No one has yet desired by the marginal consumer but not by infra-marginal consumers.75 the demand of the marginal customer. Indeed, in theory, a vertical The implication of this is that a consumer who did not want the services The demand for services may vary among customers. Because the

When the plaintiff is a dealer who either unwillingly complies with the vertical price restriction or refuses to comply and is consequently cut out of the distribution chain, the usual measure of damages asserted is the profits that would have been earned had the dealer been allowed to price freely. If the system of resale price maintenance increases efficiency by eliminating free riding, then the dealer's claim amounts to an assertion that the dealer was entitled to earn whatever profits were available from free riding on the investments of others in the distribution chain. Courts have rejected the argument. As one court explained: "The prevention of free riding is not, as yet anyway, a defense to a charge of resale price maintenance; but neither is being prevented from taking a free ride on

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another dealer's efforts a form of antitrust injury compensable by a damage award  $^{\prime\prime\prime77}$ 

Overcharges

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dealer was for some reason uniquely more efficient than other dealers in stimulate the optimal level of services by the average dealer. Suppose a other dealers, so that it could not have been free riding. As a matter of means that the dealer could prove that it provided the same services as service on the basis of average dealer performance. Allowing recovery of distribution system in the most efficient way - by calculating price and such a case implies that the supplier is not allowed to organize the theory, one could imagine a resale price set by a supplier calculated to that were not attributable to free riding. In practice, this presumably an unavoidable by-product of a substantive rule of per se illegality for efficiency. This result, however, if the case were ever presented, might be lost profits may ultimately reduce both productive and allocative advantage that cannot be duplicated. This dealer could profit by charging providing the services. The supplier would prefer that all dealers achieve vertical price fixing agreements. less than the stipulated price without free riding. Yet recognizing injury in the greater efficiency, but assume that the dealer in question enjoys some Of course, the dealer could recover profits lost because of the restraint

If instead the vertical price fixing arrangement facilitates collusion, the premise of the injured dealer's claim is different: Monopoly profits are being earned in the market, and the claim is that the dealer is entitled to a greater share of those profits than the dealer would have earned by charging the fixed price. If the collusion occurs at the dealer level, the plaintiff could profit by providing the same services offered by other dealers and simply shading price. If suppliers are the source of the collusion, the plaintiff dealer may have to cut prices and free ride on the investments of other dealers. In either case, the dealer is effectively seeking antitrust protection for diverting sales from participants in a cartel and thereby earning profits that would not have been available at all in a competitive market. At least one court has held that the loss of profits made possible by an antitrust violation does not constitute antitrust

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See William S. Comanor, Vertical Price-Fixing, Vertical Market Restrictions, and the New Antitrust Policy, 98 HARV. L. REV. 983 (1985).

See Roger D. Blair & James Fesmire, The Resale Price Maintenance Policy Dilemma, 60 SOUTHERN ECON. J. 1043 (1994).

Isaksen v. Vermont Castings, 825 F.2d 1158, 1165 (7th Cir. 1987), cert. denied, 486 U.S. 1005 (1988).

profits should be antitrust injury because its increased output undermines injury.78 It is possible to argue, however, that a price-cutting dealer's lost

# C. Single Firm Monopoly Pricing

other than efficiency.79 of firms conspiring to charge a supra-competitive price, a single firm monopolization. The only conceptual difference is that, instead of a group effects, and deadweight loss are equally relevant in the context of and exclusionary conduct, or conduct that excludes rivals on some basis charges the monopoly price. multiplying the resulting number by the quantity actually purchased monopolist sues, the obvious measure of damages is the overcharge. Issues explored earlier concerning the indirect purchaser rule, umbrella Overcharge damages can be calculated in the usual way, by determining a hypothetical competitive price, subtracting it from the actual price, and The offense of monopolization requires possession of monopoly power When a direct purchaser from an illegal

to yield useful data. monopoly pricing are apt to be harder to identify, or if located, less likely be especially hard to find. To the extent that monopolies are more durable cartel. Depending upon the scope of the monopoly, a yardstick firm may price may be more difficult in the case of a monopolist than in that of a than cartels, periods of competition before, after, or during the span of In practice, however, the determination of a hypothetical competitive

anticompetitive conduct."80 The court was concerned, for example, with has held that "a purchaser may recover only for the price increment that not solely derived from its impermissible exclusionary conduct. One court 'flows from' the distortion of the market caused by the monopolist's Moreover, the analysis is complicated when the monopolist's power is

marginal harm. The task imposed on the analyst, therefore, is to ascertain entitled to no damages, for the antitrust violation would have caused no the actual price.81 the price that would have prevailed absent the exclusionary conduct, a regardless of exclusionary conduct, presumably the plaintiff would be overcharge may be attributable to market power lawfully acquired and practices. The disaggregation rule assumes that part of a monopoly then preserved or strengthened its position by the use of exclusionary price that by hypothesis is greater than the competitive price but less than have been extracted by virtue of monopoly power legitimately procured, part to market power unlawfully obtained; if the entire overcharge could the firm that acquired a monopoly through superior efficiency or foresight,

### D. Tying Arrangements

controversial, and beyond the scope of this monograph.<sup>84</sup> purpose. 83 A full economic analysis of tying arrangements is complex, may avoid condemnation if it serves some recognized, legitimate of commerce must be affected in the tied product, and the arrangement must have market power in the tying product, a not insubstantial amount though the per se rule is qualified when applied in this context - the seller from anyone else).82 Tying arrangements are said to be per se illegal, condition that the purchaser buy a second product from the seller (or not A tying arrangement can be defined as the sale of one product on the

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<sup>1986).</sup> See also Easterbrook, Treble What?, supra note 29, at 98-99. Local Beauty Supply v. Lamaur Inc., 787 F.2d 1197, 1202-03 (7th Cir

<sup>5</sup> Skiing Co. v. Aspen Highlands Skiing Corp., 472 U.S. 585, 605 (1985). See United States v. Grinnell Corp., 384 U.S. 563, 570-71 (1966); Aspen

<sup>8</sup> Berkey Photo v. Eastman Kodak Co., 603 F.2d 263, 297 (2d Cir. 1979), cert. denied, 444 U.S. 1093 (1980). The holding is criticized on a number of grounds in James R. McCall, The Disaggregation of

DAME L. REV. 643 (1987). Damages Requirement in Private Monopolization Actions, 62 NOTRE

showing of persistent monopoly power and a substantial anticompetitive conduct. Berkey, 603 F.2d at 298 n.58. proving the causal relationship between misconduct and damages, or The Berkey court expressly declined to comment on how the burden of lack of it, should be allocated once the plaintiff makes a preliminary

See Northern Pac, Ry. v. United States, 356 U.S. 1, 5-6 (1958)

<sup>34 (1984) (</sup>O'Connor, J., concurring). See, e.g., Jefferson Parish Hosp. Dist. No. 2 v. Hyde, 466 U.S. 2, 9-18,

Posner, Antitrust Law: An Economic Perspective 171-84 (1976): PARADOX: A POLICY AT WAR WITH ITSELF 375-81 (1978); RICHARD A Analysis of Tie-In Sales: Re-examining the Leverage Theory, 39 STAN For a useful survey, see Keith K. Wollenberg, Note, An Economic L. Rev. 737 (1987). See also Robert H. Bork, The Antitrust

product will be of lower average quality.

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to damage analysis. explanations for these arrangements will be noted here only as they relate

harm, the subject of this chapter. chapter. Injury to purchasers, however, is in theory a type of overcharge former kind of injury, exclusionary by nature, is addressed in the next the supply of the tied product or purchasers of the tied package. A tying arrangement can injure either competitors of the defendant in

intensity of use of the tying product, and the tie may allow the seller to discrimination. For example, the tied product may be used to meter the particular, many tying arrangements appear to be methods of price at which the same or a similar product could be purchased elsewhere.85 In else may be true, the tied product is sold at a price that exceeds the price In many of the common explanations of tying arrangements, whatever

ECONOMIC PERFORMANCE 565-69 (3d ed. 1990); CARLTON & PERLOFF, F.M. SCHERER & DAVID ROSS, INDUSTRIAL MARKET STRUCTURE AND

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to be higher than the market price of a similar product, but that similar tied product from it. In such a case, the price of the tied product is likely perhaps to deter secret price cutting by members of a cartel. See John L. prices other sellers are charging, perhaps for competitive purposes or devices by which the seller can gather information from buyers about the product from the seller only so long as the seller charges no higher price than is available in the market. See, e.g., International Salt Co. v. United States, 332 U.S. 392 (1947). These arrangements might be Monopoly Power Through Leverage, 85 COLUM. L. REV. 515 (1985); Theory, 76 YALE L.J. 1397 (1967); Louis Kaplow, Extension of (1960); Richard S. Markovits, Tie-ins, Reciprocity, and the Leverage L. Burstein, A Theory of Full-Line Forcing, 55 Nw. U. L. REV. 62 Economics of Tie-In Sales, 42 REV. ECON. & STATISTICS 68 (1960); M. JR., PATENT AND ANTITRUST LAW 163-82 (1973); M. L. Burstein, The and the Leverage Problem, 67 YALE L.J. 19 (1957); WARD S. BOWMAN, supra note 49, at 466-80; Ward S. Bowman, Jr., Tying Arrangements seller's reputation, the seller may insist upon purchase of high quality product impairs the performance of the tying product and damages the Peterman, The International Salt Case, 22 J.L. & Econ. 351, 361 Tying agreements sometimes obligate the buyer to purchase the tied Invalidating the Leveraging Hypothesis, 61 Tex. L. Rev. 893 (1983). Charles J. Smaistrla, Note, An Analysis of Tying Arrangements: If use of an inferior tied product in combination with the tying

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price for the tied product is likely to exist. of overcharge in a price fixing case, because a contemporaneous market tied product and the actual price, multiplied by the quantity purchased.86 product, as demonstrated by their more intense use. When the tie is used extract higher revenue from those who place a higher value on the tying The amount is likely to be easy to calculate, much easier than the amount damages measured by the difference between the competitive price of the price, though only by a little. As a result, the purchaser might claim for this purpose, the price of the tied product must exceed the competitive

combined price of the tying product sold at a monopoly price and the tied variable proportions, the price for the tied package may be lower than the products exceeded their combined fair market value." Of course, when in must be shown by establishing that payments for both the tied and tying calculation, the simple difference between the actual and market prices for profits that are available from sale of the tying product, a different and product sold competitively.89 tied products purchased separately. Even when the products are used in package exceeded the price that would have been paid for the tying and implication is that a purchaser could never prove that the price of the tied be earned by sale of the tying product alone at the monopoly price.88 The proportions, no greater profit can be extracted from use of a tie than could the tying and tied products are complementary and used in Kypta v. McDonald's Corp., 87 and it held that "injury resulting from a tiethe tied product presents a skewed picture. The court realized this point in the absence of the tie. Thus, in the "but for" world of overcharge damage higher price would very likely have been charged for the tying product in But, to the extent the tying arrangement is designed to maximize

of the tying product absent the tie. When a tying arrangement is used as a the seller in practice could have extracted the same profit through pricing The analysis of products used in fixed proportions does assume that

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product and its fair market value). Cir. 1981) (overcharge measured by difference between price of tied See, e.g., Bell v. Cherokee Aviation Corp., 660 F.2d 1123, 1133 (6th

<sup>671</sup> F.2d 1282, 1285 (11th Cir. 1982), cert. denied, 459 U.S. 857

See Bowman, Tying Arrangements, supra notc 84, at 21-22

For a helpful illustration, see Wollenberg, supra note 84, at 747 n.81

machine and paper than would have been paid for the products acquired customer could claim that he or she paid more for the tied package of seller to charge intense users more than light users. If the supplier could would have been lawful and practical. Thus, for example, a piece of separately. provide one copy. A tie between the machine and paper might allow the paper may be combined with a unit of mechanical copying service to metering mechanism, the question is whether a different metering device lease the machine and charge rent that varied with the amount of use, no

a method of price discrimination and the alternative to the tie is a single, price discrimination, some consumers are likely to be made better off by monopoly price for the tying product, or at least a less perfect form of have fared better under the defendant's best alternative to the tying standard will presumably depend upon a showing that he or she would the tie and others worse off.90 The plaintiff's ability to satisfy the Kypta function to price discriminate. In any case where the tying arrangement is purchaser might or might not have been better off absent the tie arrangement. Moreover, a tie involving products used in variable proportions can also If instead direct metering is impossible or separately illegal, then the

technologically interdependent products is likely to result in a higher price designed to protect the supplier's goodwill by insuring the quality of presumably be able to show that he or she paid a higher price for the sanction is appropriate for regulatory evasion,92 the plaintiff would tying product market.91 Though one might question whether an antitrust for the package, but the package will consist of higher quality package than would have been lawfully charged absent the tie. A tie Thus, for example, a tie-in might be used to avoid price regulation in the depend upon the function involved and the plaintiff's identity and proof arrangement serves some function other than price discrimination will Whether the plaintiff can satisfy the Kypta standard when the tying

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plaintiff may be unable to show harm. components. An appropriate calculation will adjust for quality, and the

of the final product that would have been made absent the tie. The court a shortage in a necessary input, an assertion that would at least offer some doors, prepared them for installation, and sold them to home builders. manufactured six-panel doors and flush doors; the plaintiff purchased theory in Barber & Ross Co., v. Lifetime Doors93 allowed a customer to bring an action for lost profits based on a tying damages measured not by the overcharge but by the profits lost on sales than a consumer. In such a case, the buyer may assert a claim for verdict for the plaintiff that depended upon a finding of market power. though the court offered no alternative explanation, it affirmed a jury defendant claimed that there was a scarcity of six-panel doors because of product) for every six-panel door (the tying product) ordered. The doors. But the plaintiff alleged that no shortage actually existed, and basis for the counter-intuitive determination of market power in six-panel The defendant required purchasers to buy three flush doors (the tied The buyer of tied products may be an intermediate purchaser rather The defendant

same price for six-panel doors. In effect, the court allowed the plaintiff to - absent the tie, the defendant would not necessarily have charged the is difficult to discern. If it represents a case of extending market power absent the tie and at the price defendant charged. The facts of this case that would not necessarily have prevailed.44 claim that it was entitled to all of the six-panel doors it wanted at a price however, the court failed to take account of the point recognized in Kypta from the market for six-panel doors to the market for flush doors, are sketchy and peculiar, and the economic function of the tie accordingly have made had it been able to purchase all of the six-panel doors it wanted court allowed damages based on lost profits for sales the plaintiff would doors; afterward, the parties terminated their relationship altogether. The purchases of the tied products to fulfill orders placed with it for six-panel For a period of time, the plaintiff apparently refused to make sufficient

price discrimination benefits every purchaser. efficiency relative to a single price monopoly. This does not imply that In the aggregate, price discrimination is likely to increase allocative

See Bowman, Tying Arrangements, supra note 84, at 19-36

See BORK, supra note 84, at 381

<sup>810</sup> F.2d 1276 (4th Cir.), cert. denied, 484 U.S. 823 (1987).

constitutes antitrust injury. Barber & Ross, 810 F.2d at 1279 n.1. The it otherwise would not have bought caused no adverse effect on competition. The defendant argued that forcing plaintiff to purchase flush doors that The court responded that such an effect nevertheless

court also suggested that if a tie-in results in a greater share of the tied product market for the defendant, the effect is anticompetitive. Barber & Ross, 810 F.2d at 1280, 1279 n.1. However, a tying arrangement that increases the defendant's market share of the tied product does not necessarily reduce efficiency. See Wollenberg, supra note, at 749 (arguing that the concern is not with the possession of market share but with exploitation of market share). For example, if the tied product is sold at the competitive price, a shift in sales pattern toward the defendant is economically benign.